AKZO NOBEL

Technology & Engineering

May 8, 2008

US EPA Office of Pollution Prevention and Toxics
EPA East Building Room 6428
Attn: Section 8(e)
1201 Constitution Avenue, NW
Washington, DC 20004

SUBJECT: TSCA 8(e) Notice

Dear TSCA Section 8(e) Coordinator:

On behalf of Akzo Nobel Polymer Chemicals, LLC we are submitting results of a Reproduction/Developmental study conducted with hexaneperoxoic acid, 2-ethyl-, 1,1-dimethylethyl ester (CAS# 3006-82-4).

The test material was prepared in corn oil which was also used as the vehicle control. Dose groups were: control, 100, 300, and 1000 mg/kg. Doses were administered daily by oral gavage to male rats for 41 days and to female rats during pre-mating, mating, gestation, and lactation through 3 days post partum.

All animals survived until necropsy and no abnormal macroscopic or microscopic findings were noted. Clinical signs of toxicity were noted in the high dose males and females and included moving the head through the bedding material after test article administration. During the last two days of gestation or the first two days of lactation, 7and 4 high dose dams, respectively had ruffled fur and a generally bad condition. During lactation, the mean body weight gain of the dams in the high dose group was statistically significantly decreased. Testes weights in high dose males were not affected by treatment although the organ/body weight ratio was statistically significantly increased.

Mating performance and fertility, the corpora lutea count, the implantation rate, and gestation length were not influenced by treatment with the test material. The mean pre-implantation loss was increased in treated groups but was not dose-related. Pre-implantation loss was reported previously for the range finding portion of this study (8EHQ-07-16908).

Post-implantation loss was statistically significantly increased in the high dose group. The total implantation loss was 15, 13, 10 and 49 for the vehicle control, low, mid and high dose groups, respectively. One dam in the high dose group had total litter loss corresponding to 8 lost implantation sites.

The number of living pups at first litter check was reduced when compared with controls. The mean number of living pups was 13.5, 12.1, 11.5, and 9.5 for the control, low, mid and high dose groups, respectively. Number of dead pups in the control, mid and high dose groups were 3, 2, and 40, respectively.

Postnatal loss was statistically significantly increased in the high dose group and low dose group. This finding in the low dose group was considered incidental as only 1/10 dams was affected by cannibalization of the pups. In the control, low, mid and high dose groups postnatal loss was 3, 12, 0 and 23 dead pups noted in 1, 1, 0 and 5 litters, respectively.

Mean high dose pup weight was statistically significantly reduced up to day 4 post partum. No treatment related macroscopic findings were observed in pups.

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Please contact me at (312) 544-7061 if you have any questions regarding this letter.

Sincerely,

Louette Rausch

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From: Origin ID: GYYA (312)544-7315
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AKZO NOBEL SERVICES INC
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TSCA Section 8(e) Coordinator
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